HURRICANE DORIAN BRIEFING

6:00 AM EDT
Friday, September 6, 2019
Prepared by: WFO Wakefield, VA

What has changed:

Next Briefing: By 6:00 PM EDT

Disclaimer: The information contained within is time-sensitive. Do not use after 6:00 PM EDT Friday
## Situation Overview

### Hurricane Dorian

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Impacts</th>
<th>Location</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flooding Rain</td>
<td>Prolonged periods of heavy rainfall is expected to lead to flash flooding and water covered roads.</td>
<td>Eastern VA and Northeast NC (Highest threat across coastal Northeast NC).</td>
<td>Today</td>
</tr>
<tr>
<td>Wind</td>
<td>Life threatening winds/wind damage is expected to lead to downed trees, power outages, and communication issues.</td>
<td>Eastern VA, Northeast NC, and Southeast MD (Highest threat across coastal Northeast NC).</td>
<td>Today</td>
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<tr>
<td>Storm Surge/Inundation</td>
<td>Moderate to major tidal flooding is expected. Low-lying roadways will be inundated and become impassible.</td>
<td>Anywhere along the coast, but most likely along lower Chesapeake Bay, southeast Virginia, and northeast North Carolina.</td>
<td>Today into Saturday.</td>
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<tr>
<td>Tornado</td>
<td>There is the potential for increased tornado activity.</td>
<td>Coastal Northeast NC.</td>
<td>This morning.</td>
</tr>
<tr>
<td>Marine</td>
<td>Very dangerous to extreme marine conditions are likely.</td>
<td>All coastal waters/nearshore waters, Chesapeake Bay, Sounds and lower tidal rivers.</td>
<td>Through Saturday.</td>
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</table>
Immediate Concerns for the Local Area
- Confidence is **high** that we will see life-threatening storm surge, heavy rain, and strong winds across portions of the area overnight and into Friday morning.

Key Takeaways
- **Do not focus on the track alone.** Impacts will occur well away from the center.
- **Do NOT cross flooded roads.**
- **Listen to local evacuation orders if they are given.**
Threat Levels

Hurricane Dorian

For information on specific hazards in this area, please go to https://www.weather.gov/akq/tropical

Confidence has increased that life threatening storm surge, flash flooding, and strong winds will all be possible across portions of the region. In addition, the threat for tornado activity has increased over northeast NC.
• A Hurricane Warning remains in effect for portions of Northeast North Carolina, including Elizabeth City.

• A Tropical Storm Warning remains in effect for much of Eastern Virginia (including Hampton Roads) and Northeast North Carolina.

• A Tropical Storm Watch remains in effect for portions of Eastern Virginia and the Maryland Eastern Shore.
A Storm Surge Warning remains in effect for coastal northeast North Carolina and Hampton Roads.

A Coastal Flood Warning remains in effect for York County, VA, the VA middle Peninsula and Northampton, VA.

A Coastal Flood Watch is in effect for portions of eastern Virginia and Northampton, VA.
These winds are highly dependent on storm track.

Immediate coast: Gusts as high as 75 mph.

Eastern VA and interior NE NC: Gusts as high as 45 to 60 mph.

I-95 Corridor including Richmond: Gusts as high as 35 to 45 mph.
Impacts

- Damage to porches, awnings, carports, sheds, and unanchored mobile homes. Unsecured lightweight objects blown about.

- Large trees snapped or uprooted, especially in areas where soils are saturated. Some roadway signs will be blown over.

- Some roads will be impassable from debris. Hazardous driving conditions on bridges and other elevated roadways.

- Scattered to widespread power and communication outages can be expected.
Potential Storm Surge Flooding

Hurricane Dorian

- Moderate to major flooding coastal flooding is expected.

- Locations of greatest risk: Anywhere along the coast, but most likely along lower Chesapeake Bay, southeast Virginia, and northeast North Carolina.

- Timing: Storm surge inundation could begin as early as tonight. **Period of greatest concern is with high tide cycle this afternoon and tonight.**

- 2 to 4 feet above ground of inundation within surge prone areas.

- Major flooding will cause extensive inundation and flooding of numerous roads and buildings, resulting in a significant threat to life and property.
Potential Storm Surge Impacts

Hurricane Dorian

Impacts

- Severe flooding will cause extensive inundation and flooding of numerous roads and buildings resulting in a significant threat to life and property.

- Substantial coastal damage and severe erosion to dunes is expected.

- Numerous roads will be impassable, with many unprotected cars submerged.

- Flood waters may extend well away from the coast.
Very dangerous to extreme marine conditions are likely through Saturday.
A Flash Flood Watch is in effect for Northeast NC and Southeast VA today.

Storm Total rainfall forecast valid through Saturday morning.

Locally, most rain will occur into this afternoon, lingering into Friday night along the coast.

Note: There will likely be locally higher amounts.
Impacts

- Flooding from heavy rainfall may prompt evacuations and rescues.

- River and tributaries may quickly become swollen, with swift currents, and overspill their banks. Small streams, creeks, and ditches may also overflow.

- Flood waters may enter structures and/or weaken foundations.

- Some areas may experience areas of rapid inundation at underpasses, low-lying spots, and poor drainage areas. Driving conditions may become hazardous.
Areas outlined have the greatest potential for flash flooding Friday through Saturday.
Key Take-Aways

Hurricane Dorian

- Confidence is **HIGH** that the event will occur
- Confidence is **HIGH** regarding impacts

Prolonged periods of heavy rainfall is expected to lead to areas of flash flooding and water covered roads for portions of Eastern VA and Northeast NC.

Life threatening winds/wind damage is expected to lead to downed trees, power outages, and communication issues across portions of Eastern VA, Northeast NC, and Southeast MD today and tonight.

Moderate to major tidal flooding is expected late this afternoon into tonight in the Bay and along the coast.

There is the potential for increased tornado activity, mainly across coastal SE VA and Northeast NC.

Marine conditions will become very dangerous to extreme due to increasing waves and the potential for tropical storm or hurricane force winds through Saturday.
Contact and Next Briefing Information

Next Briefing:
When: By 6:00 PM EDT Friday
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